



Key West International Airport Runway Safety Area

July 10, 2008



***Robert M. Brown, Director
Environmental Resource Regulation Department***



Key West International Airport Runway Safety Area

- **Monroe County – City of Key West**
- **Total Project Area 44.56 Acres**
- **Permit modification for construction and operation of Runway Safety Area (RSA) improvements for the existing 9/27 runway and associated mitigation.**



FLEMING KEY

KEY WEST

BOCA
CHICA
KEY







Key West International Airport Runway Safety Area

Water Quality

- Meets water quality criteria for Outstanding Florida Waters (OFW)
- Implements Florida Airports Stormwater BMP Manual recommendations
- No fertilizers to be used
- No irrigation
- Grass clippings will be bagged



Key West International Airport Runway Safety Area

On-site Wetlands

22.14 acres

Wetland Impacts

6.38 acres mangrove

1.64 acres salt ponds

.36 acres exposed rock

Total

8.38 acres



Wetland-1A (view east from northeast corner of mowed runway area) – Typical view of trimmed mangroves on east end of Runway 9/27.



Wetland-1B (view northeast from northeast side of weather tower) – Typical view of trimmed mangroves on east end of Runway 9/27.



**Wetland-5 (view east from west side of wetland 4) –
View of wetland area on north side of Runway 9/27.**



**Wetland-7A (view east from west side of wetland) –
View of mangroves, pond, and Runway 9 end.**



Key West International Airport Runway Safety Area

Mitigation

4.44 acres at runway west end

16.67 acres at runway east end

Total	<hr/> 21.11 acres
--------------	--------------------------



Key West International Airport Runway Safety Area

Mitigation (Cont'd)

- Two existing culverts will be reopened and a new culvert added to restore flushing
- Conservation easement will be placed over mitigation areas prior to construction
- Mitigation areas will be monitored annually for five years or until success criteria has been achieved and maintained in perpetuity

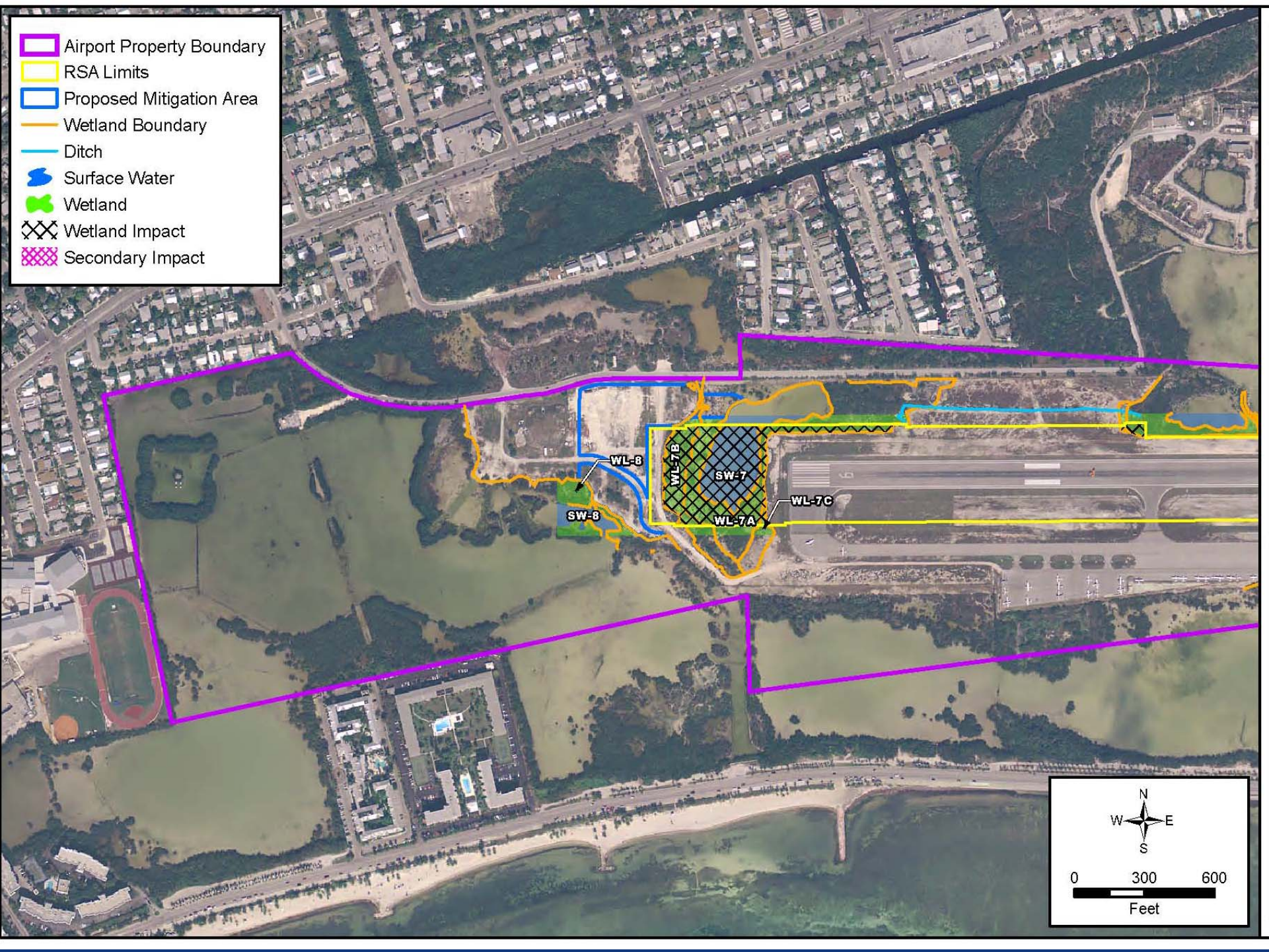
- Airport Property Boundary
- RSA Limits
- Proposed Mitigation Area
- Wetland Boundary
- Ditch
- Surface Water
- Wetland
- Wetland Impact
- Secondary Impact



projects\kiewit\west_intl_Airport\4-arr150_NCP\12667526\Bionics\applications\step_wet_imp_a.mxd



- Airport Property Boundary
- RSA Limits
- Proposed Mitigation Area
- Wetland Boundary
- Ditch
- Surface Water
- Wetland
- Wetland Impact
- Secondary Impact



- Airport Property Boundary
- RSA Limits
- Wetland Boundary
- Fence
- Mangrove Creation
- Open Water Creation
- Airport Access Road

East Martello
Battery Bunker

Proposed 36" Culvert
Invert -1.0

Existing Culvert - To Be Desilted

Existing 36" Culvert - To Be Desilted



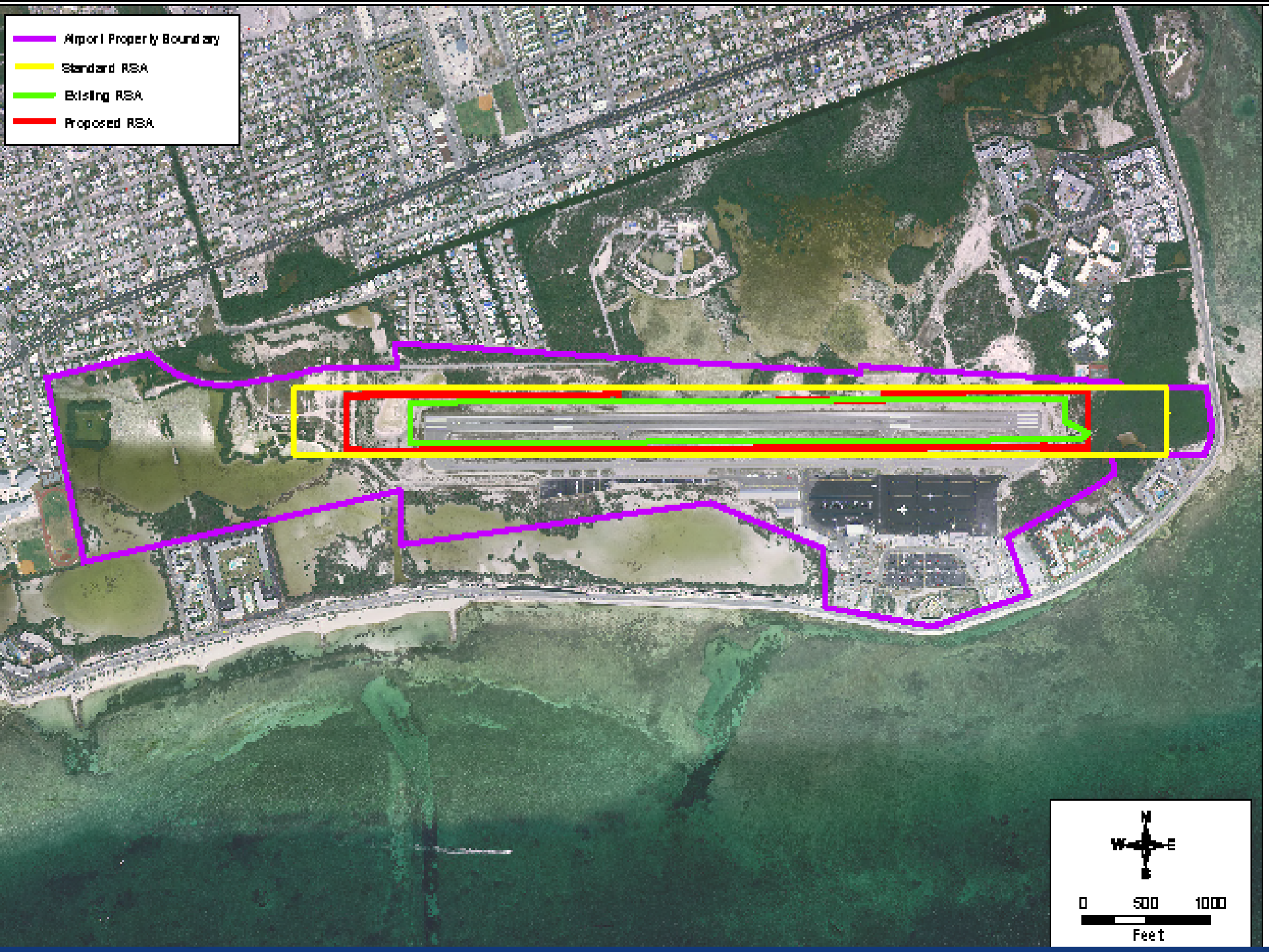
0 100 200
Feet



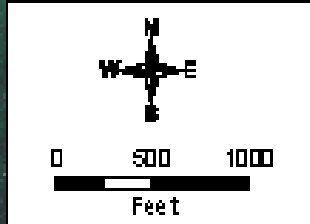
Key West International Airport Runway Safety Area

Project Summary

- Wetland Impacts 8.38 acres
- Mitigation 21.11 acres
- Improved safety for planes/passengers with no additional air traffic or larger planes
- 60% fewer impacts than standard RSA
- Improved flushing in created waterbodies
- Improved hydrology in mitigation areas



- Airport Property Boundary
- Standard RSA
- Existing RSA
- Proposed RSA





Key West International Airport Runway Safety Area

Staff recommendation:

Construction and operation of a surface water management system to serve a project known as Key West International Airport Runway Safety Area Improvements (Application No. 070402-30).